

## Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LAKE MICHIGAN</b>				
<b>WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]</b>				
	06/18/10 15:30 CST		0	Marine Thunderstorm Wind (MG 42 kt)
	06/18/10 15:30 CST		0	Source: C-MAN Station
<b>NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]</b>				
	06/18/10 16:00 CST		0	Marine Thunderstorm Wind (EG 35 kt)
	06/18/10 16:00 CST		0	Source: Trained Spotter
A line of severe thunderstorms moved across the Milwaukee Harbor and vicinity lakeshore area producing strong wind gusts. No damage was reported by multiple sources along the lakeshore.				
A squall line of severe thunderstorms moved east-northeast across far southern Wisconsin and the adjacent nearshore waters of Lake Michigan. The squall line showed bowing structure, which was an indicator of strong, damaging winds.				
<b>WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 3.6 E WIND POINT [42.78, -87.76]</b>				
	06/21/10 21:15 CST		0	Marine Thunderstorm Wind (EG 43 kt)
	06/21/10 21:15 CST		0	Source: Public
Wind Point lighthouse keeper estimated wind gust of 43 knots with line of thunderstorms.				
<b>NORTH PT LT TO WIND PT WI COUNTY --- 3.3 SE NORTH POINT LTHOUSE [43.04, -87.89]</b>				
	06/21/10 21:20 CST		0	Marine Thunderstorm Wind (MG 46 kt)
	06/21/10 21:20 CST		0	Source: Mariner
Intense thunderstorms affected the Lake Michigan shoreline late in the evening on June 21st. These were the same thunderstorms that produced tornadoes and damaging downburst winds in south-central and southeast Wisconsin.				
<b>WISCONSIN, Southeast</b>				
<b>SAUK COUNTY --- 2.5 W SAUK CITY [43.27, -89.78]</b>				
	06/02/10 15:30 CST		0	Hail (1.00 in)
	06/02/10 15:30 CST		0	Source: Law Enforcement
<b>DANE COUNTY --- 3.0 SSW NORTH BRISTOL [43.23, -89.23]</b>				
	06/02/10 16:20 CST		30K	Lightning
	06/02/10 16:20 CST		0	Source: Newspaper
A lightning strike ignited a fire that damaged areas of the second floor and attic of a home in the 3600 block of Wyndwood Way in the Town of Bristol.				
<b>DANE COUNTY --- 3.0 N DEERFIELD [43.09, -89.07], DEERFIELD [43.05, -89.07]</b>				
	06/02/10 16:23 CST		0	Hail (0.75 in)
	06/02/10 16:23 CST		0	Source: Public
<b>JEFFERSON COUNTY --- 1.0 W LAKE MILLS [43.08, -88.92]</b>				
	06/02/10 16:25 CST		0	Hail (1.00 in)
	06/02/10 16:25 CST		0	Source: Trained Spotter
<b>JEFFERSON COUNTY --- 2.0 SW LAKE MILLS [43.06, -88.93]</b>				
	06/02/10 16:28 CST		0	Hail (1.75 in)
	06/02/10 16:28 CST		0	Source: Trained Spotter
<b>JEFFERSON COUNTY --- LAKE MILLS [43.08, -88.90]</b>				
	06/02/10 16:30 CST		0	Hail (1.00 in)
	06/02/10 16:35 CST		0	Source: Trained Spotter

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A line of strong thunderstorms pushed southeast across southern Wisconsin. Within the line, a fairly intense thunderstorm produced large hail-with the largest being 1.75 inches.

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### DANE COUNTY --- 1.0 W MIDDLETON [43.10, -89.52]

06/05/10 13:10 CST	0	Funnel Cloud
06/05/10 13:10 CST	0	Source: Public

Two individuals reported a funnel cloud 1 mile west of Middleton.

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### DANE COUNTY --- 4.0 S SUN PRAIRIE [43.12, -89.20], 2.0 E SUN PRAIRIE [43.18, -89.16]

06/05/10 13:10 CST	0	Funnel Cloud
06/05/10 13:25 CST	0	Source: Law Enforcement

Law enforcement, along with spotters and the general public, saw a funnel cloud form, dissipate, and reform from a thunderstorm as it moved northeast through the Sun Prairie area.

Thunderstorms developed during the afternoon of June 5th as low pressure moved along a frontal boundary draped across southern Wisconsin. A portion of the frontal boundary followed a southwest to northeast line across Dane and Dodge counties from Lake Mendota in Madison to Juneau. A west to east line of storms developed north of Middleton and pushed northeast. Funnel clouds formed when the thunderstorm cells intersected the boundary.

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### DANE COUNTY --- 1.0 NE CROSS PLAINS [43.13, -89.62]

06/06/10 14:12 CST	0	Hail (0.75 in)
06/06/10 14:12 CST	0	Source: Trained Spotter

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### DANE COUNTY --- 1.2 S SHOREWOOD HILLS [43.06, -89.47]

06/06/10 14:15 CST	0	Hail (0.75 in)
06/06/10 14:15 CST	0	Source: Amateur Radio

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### WASHINGTON COUNTY --- 4.0 NNW WEST BEND [43.47, -88.21]

06/06/10 16:20 CST	0	Hail (0.75 in)
06/06/10 16:20 CST	0	Source: Trained Spotter

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### WASHINGTON COUNTY --- WEST BEND [43.42, -88.18]

06/06/10 16:30 CST	0	Hail (0.88 in)
06/06/10 16:30 CST	0	Source: Trained Spotter

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### COLUMBIA COUNTY --- 2.0 SSE POYNETTE [43.37, -89.38]

06/06/10 16:38 CST	0	Hail (0.75 in)
06/06/10 16:38 CST	0	Source: Public

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### DANE COUNTY --- 2.0 N UTICA [43.00, -89.12]

06/06/10 16:45 CST	0	Hail (0.75 in)
06/06/10 16:45 CST	0	Source: Public

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### DANE COUNTY --- 5.0 SE MADISON TRUAX AIRPORT [43.09, -89.26]

06/06/10 17:20 CST	0	Hail (0.75 in)
06/06/10 17:20 CST	0	Source: Trained Spotter

A surface trough associated with an exiting low pressure system provided the focus for afternoon thunderstorms in the presence of marginal MLCAPE (< 250 J/kg). Instability due to mid-level lapse rates of 6 to 6.5 degrees C along with the 0 degree C level falling below 700 mb made hail a threat with the developing thunderstorms.

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### JEFFERSON COUNTY --- 0.8 SW WATERTOWN [43.19, -88.73]

06/18/10 01:12 CST	0	Thunderstorm Wind (EG 50 kt)
06/18/10 01:12 CST	0	Source: Trained Spotter

A tree two and one half feet in diameter blew down partially blocking the intersection of Highway 26 and Milwaukee Street in Watertown. Time estimated from radar.

## Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LAFAYETTE COUNTY --- 1.0 W SOUTH WAYNE [42.57, -89.90], 1.0 S SOUTH WAYNE [42.56, -89.88]</b>				
	06/18/10 13:30 CST		0	Thunderstorm Wind (EG 56 kt)
	06/18/10 13:30 CST		0	Source: Law Enforcement
Law Enforcement reported trees down.				
<b>GREEN COUNTY --- MARTINTOWN [42.50, -89.80]</b>				
	06/18/10 13:40 CST		0	Thunderstorm Wind (EG 56 kt)
	06/18/10 13:40 CST		0	Source: Public
General public reported a swath of downed trees from Martintown to northwest of Brodhead. Scattered pockets of felled trees were reported in a band about 3 miles wide.				
<b>GREEN COUNTY --- JUDA [42.58, -89.50]</b>				
	06/18/10 13:45 CST		0	Thunderstorm Wind (EG 56 kt)
	06/18/10 13:45 CST		0	Source: Public
General public reported a swath of downed trees from Martintown to northwest of Brodhead. Scattered pockets of felled trees were reported in a band about 3 miles wide.				
<b>GREEN COUNTY --- 3.0 NW BRODHEAD [42.65, -89.41]</b>				
	06/18/10 13:50 CST		0	Thunderstorm Wind (EG 56 kt)
	06/18/10 13:50 CST		0	Source: Law Enforcement
General public reported a swath of downed trees from Martintown to northwest of Brodhead. Scattered pockets of felled trees were reported in a band about 3 miles wide.				
<b>ROCK COUNTY --- 4.0 SW ORFORDVILLE [42.59, -89.31]</b>				
	06/18/10 14:05 CST		10K	Thunderstorm Wind (EG 65 kt)
	06/18/10 14:05 CST		0	Source: Public
Public reported trees and power-lines down.				
<b>ROCK COUNTY --- BELOIT [42.52, -89.03]</b>				
	06/18/10 14:20 CST		0	Thunderstorm Wind (EG 65 kt)
	06/18/10 14:20 CST		0	Source: Amateur Radio
A newspaper report indicated that trees and power lines were down due to powerful thunderstorm wind gusts.				
<b>ROCK COUNTY --- 2.0 SW DOWNTOWN JANESVILLE [42.66, -89.05]</b>				
	06/18/10 14:24 CST		0	Thunderstorm Wind (EG 56 kt)
	06/18/10 14:24 CST		0	Source: Trained Spotter
Trained spotter reported downed trees.				
<b>ROCK COUNTY --- DOWNTOWN JANESVILLE [42.68, -89.02]</b>				
	06/18/10 14:26 CST		0.10M	Thunderstorm Wind (EG 70 kt)
	06/18/10 14:26 CST		0	Source: Trained Spotter
Powerful thunderstorm winds raked the city of Janesville. At least 50 large trees were uprooted, and numerous power-lines were down. A metal roof of a business was ripped off by the winds. Elsewhere, a tree fell on a flatbed truck (minor damage), and a carriage house roof was blown off. Heavy rains resulted in minor urban flooding and a couple stalled vehicles.				
<b>WALWORTH COUNTY --- 1.0 W DELAVAN [42.63, -88.65]</b>				
	06/18/10 14:38 CST		0	Thunderstorm Wind (EG 52 kt)
	06/18/10 14:38 CST		0	Source: Amateur Radio
Ham Radio Operator reported estimated gusts up to 52 knots.				
<b>WALWORTH COUNTY --- LAKE GENEVA [42.60, -88.43]</b>				

## Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/18/10 14:40 CST		25K	Thunderstorm Wind (MG 56 kt)
	06/18/10 14:40 CST		0	Source: Public
Public reported trees and power lines down. A house was damaged resulting in approximatley \$2,000 worth of damage.				
<b>WALWORTH COUNTY --- 3.0 E LAKE GENEVA [42.60, -88.37]</b>				
	06/18/10 14:50 CST		0	Thunderstorm Wind (MG 55 kt)
	06/18/10 14:50 CST		0	Source: Mesonet
<b>KENOSHA COUNTY --- KENOSHA AIRPORT [42.60, -87.93]</b>				
	06/18/10 15:09 CST		0	Thunderstorm Wind (MG 51 kt)
	06/18/10 15:09 CST		0	Source: ASOS
Measured 51 knot wind gust by ASOS at Kenosha Airport.				
<b>WAUKESHA COUNTY --- MUKWONAGO [42.87, -88.33]</b>				
	06/18/10 15:10 CST		0	Thunderstorm Wind (MG 66 kt)
	06/18/10 15:10 CST		0	Source: Trained Spotter
Powerful thunderstorm wind gusts toppled several large trees.				
<b>KENOSHA COUNTY --- 3.0 SW DOWNTOWN KENOSHA [42.55, -87.87], 1.0 S DOWNTOWN KENOSHA [42.57, -87.83]</b>				
	06/18/10 15:11 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	06/18/10 15:11 CST		0	Source: Amateur Radio
HAM radio operator reported trees and power lines down. Law enforcement reported a section of roof measuring 20 feet by 20 feet was blown off a building. A tree fell onto a vehicle and damaged it. Elsewhere a tree damaged an awning. At least 50 calls were made to the city 911 dispatchers about downed wires.				
<b>KENOSHA COUNTY --- 3.0 SW DOWNTOWN KENOSHA [42.55, -87.87]</b>				
	06/18/10 15:15 CST		10K	Thunderstorm Wind (EG 65 kt)
	06/18/10 15:15 CST		0	Source: Amateur Radio
Powerful thunderstorm wind gusts toppled several large trees and some power-lines came down. Minor urban flooding (water over the curb) also occurred.				
<b>WAUKESHA COUNTY --- MUSKEGO [42.90, -88.13]</b>				
	06/18/10 15:20 CST		0	Thunderstorm Wind (EG 65 kt)
	06/18/10 15:20 CST		0	Source: Trained Spotter
A trained spotter estimated a wind gust of 65 knots and a few large trees uprooted or broken.				
<b>KENOSHA COUNTY --- 9.0 SW DOWNTOWN KENOSHA [42.49, -87.95]</b>				
	06/18/10 15:26 CST		0	Thunderstorm Wind (EG 52 kt)
	06/18/10 15:26 CST		0	Source: Amateur Radio
HAM radio operator estimated a thunderstorm wind gust of 52 knots with a few large trees down.				
<b>MILWAUKEE COUNTY --- (MKE)MITCHELL APT MI [42.95, -87.90]</b>				
	06/18/10 15:31 CST		0	Thunderstorm Wind (MG 57 kt)
	06/18/10 15:31 CST		0	Source: ASOS
A bowing MCS developed in Iowa ahead of a cold front and pushed eastward into southern Wisconsin during the afternoon. The event was characterized by gusty winds with minor damage (trees down and power lines down) as well as heavy rain. At one point, more than 19,000 WE Energies' customers over southeast Wisconsin were without power after the event - mostly in the counties of Racine and Kenosha.				
<b>LAFAYETTE COUNTY --- 3.9 NNW GRATIOT [42.63, -90.04], 2.8 WNW WIOTA [42.65, -90.00]</b>				
	06/21/10 18:39 CST		15K	Tornado (EF1, L: 2.22 mi , W: 75 yd)
	06/21/10 18:45 CST		0	Source: Law Enforcement

## Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An EF1 tornado developed in a rural area about 4.5 miles southeast of Darlington about 1/2 mile southwest of the intersection of Walnut Road and Pecatonica Road. The tornado moved east-northeast for about 2.2 miles, and dissipated about 0.4 miles north of the intersection of Walnut Road and Tish Road. Tornadoic damage was sporadic in the second-half of the tornado's life. One residence experienced siding and window damage. An outbuilding used as a garage on a farmstead lost its metal roof. One large hardwood tree was blown down and other tree limbs were broken. Minor crop damage was noted, but loss estimates were not available. The exact start location was Lat 42.63352 Lon. -90.04077. The exact end location was Lat. 42.64554 Lon. -90.00035. The EF-rating was based on DI 1 (SBO), DOD 5 which suggests wind speeds between 90 and 95 mph. Average path width was 50 yards.				

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### DANE COUNTY --- 1.0 WSW CROSS PLAINS [43.11, -89.65], 0.8 WSW CROSS PLAINS [43.12, -89.64]

06/21/10 18:41 CST	15K	Tornado (EF1, L: 0.16 mi , W: 40 yd)
06/21/10 18:43 CST	0	Source: Law Enforcement

A brief EF1 tornado spun up within the city of Cross Plains between Julius Street and Sylvia Pine Way and moved northeast to near the intersection of Caesar Street and Woodside Drive and dissipated. At least 3 homes had minor roof damage. A number of large trees were uprooted or broken in half. An in-ground basketball pole was bent to a 45 degree angle. Roof soffit and fascia siding was peeled off a municipal pool house. The severe thunderstorm become outflow dominated and resulted in straight line wind damage (trees) further northeast over rural areas northeast Cross Plains. some crop damage was seen, but loss estimates were unavailable. The exact start location was Lat. 43.114895 Lon. -89.647946. The exact end location was Lat. 43.11522 Lon. -89.645138. The EF-rating was based on DI 2 (TH), DOD 4 which suggests wind speeds between 90 and 100 mph. Average path width was 20 yards.

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### DANE COUNTY --- 2.0 NE CROSS PLAINS [43.14, -89.60]

06/21/10 18:45 CST	0	Thunderstorm Wind (EG 65 kt)
06/21/10 18:50 CST	0	Source: NWS Storm Survey

NWS survey team found numerous trees blown down by straight-line thunderstorm wind gusts estimated at 65 knots (75 mph).

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### GREEN COUNTY --- 3.3 NW JORDAN [42.69, -89.82]

06/21/10 19:03 CST	0	Thunderstorm Wind (EG 56 kt)
06/21/10 19:03 CST	0	Source: Law Enforcement

Law enforcement officials reported numerous trees blown down by thunderstorm wind gusts estimated at 56 knots (64 mph).

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### ROCK COUNTY --- EDGERTON [42.83, -89.07]

06/21/10 19:07 CST	0	Thunderstorm Wind (EG 65 kt)
06/21/10 19:12 CST	0	Source: Law Enforcement

Law enforcement officials reported numerous trees blown down by thunderstorm wind gusts estimated at 65 knots (74 mph).

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### DANE COUNTY --- MC FARLAND [43.02, -89.28]

06/21/10 19:15 CST	0	Hail (1.00 in)
06/21/10 19:15 CST	0	Source: Trained Spotter

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### JEFFERSON COUNTY --- 0.2 SW BUSSEYVILLE [42.90, -88.98], 1.1 NE BUSSEYVILLE [42.91, -88.96]

06/21/10 19:15 CST	0.62M	Tornado (EF1, L: 1.32 mi , W: 100 yd)
06/21/10 19:17 CST	10K	Source: NWS Storm Survey

An EF1 tornado developed in Busseyville just south of the intersection of Draves Road and Loga Road, and moved northeast about 1.3 miles and dissipated at the intersection of STH 106 and Carcajou Rd. Thirty residential structures were minimally affected, 1 had minor damage , and 2 sustained major damage (one of which had a large tree collapse part of the structure). A vehicle was damaged when a large tree branch fell on it. Total private sector damage was estimated at \$620,000, which included \$590,000 for residential structures, \$25,000 for farm buildings, and \$5,000 for the damaged vehicle. Uprooted trees and snapped tree limbs were noted along the path of the tornado. Some crop damage was noted with a loss estimate of about \$10,000. Public sector service (non-damage) costs were limited to just debris clearance which totaled \$8,000. The exact start location was Lat.42.89798 Lon. -88.98371. The exact end location was Lat 42.91102 Lon. -88.96454. The EF-rating was based on DI 27 (TH) DOD3 which suggests wind speeds between 90 and 100 mph. The average path width was 50 yards.

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### ROCK COUNTY --- 2.0 E NEWVILLE [42.83, -88.98]

06/21/10 19:15 CST	0	Hail (1.50 in)
06/21/10 19:15 CST	10K	Source: Emergency Manager

A severe thunderstorm produced hail up to 1.50 inches in diameter east of Newville just north of CTH N. A portion of a corn field was flattened by the hail.

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### DANE COUNTY --- 2.0 E ALBION [42.88, -89.03]

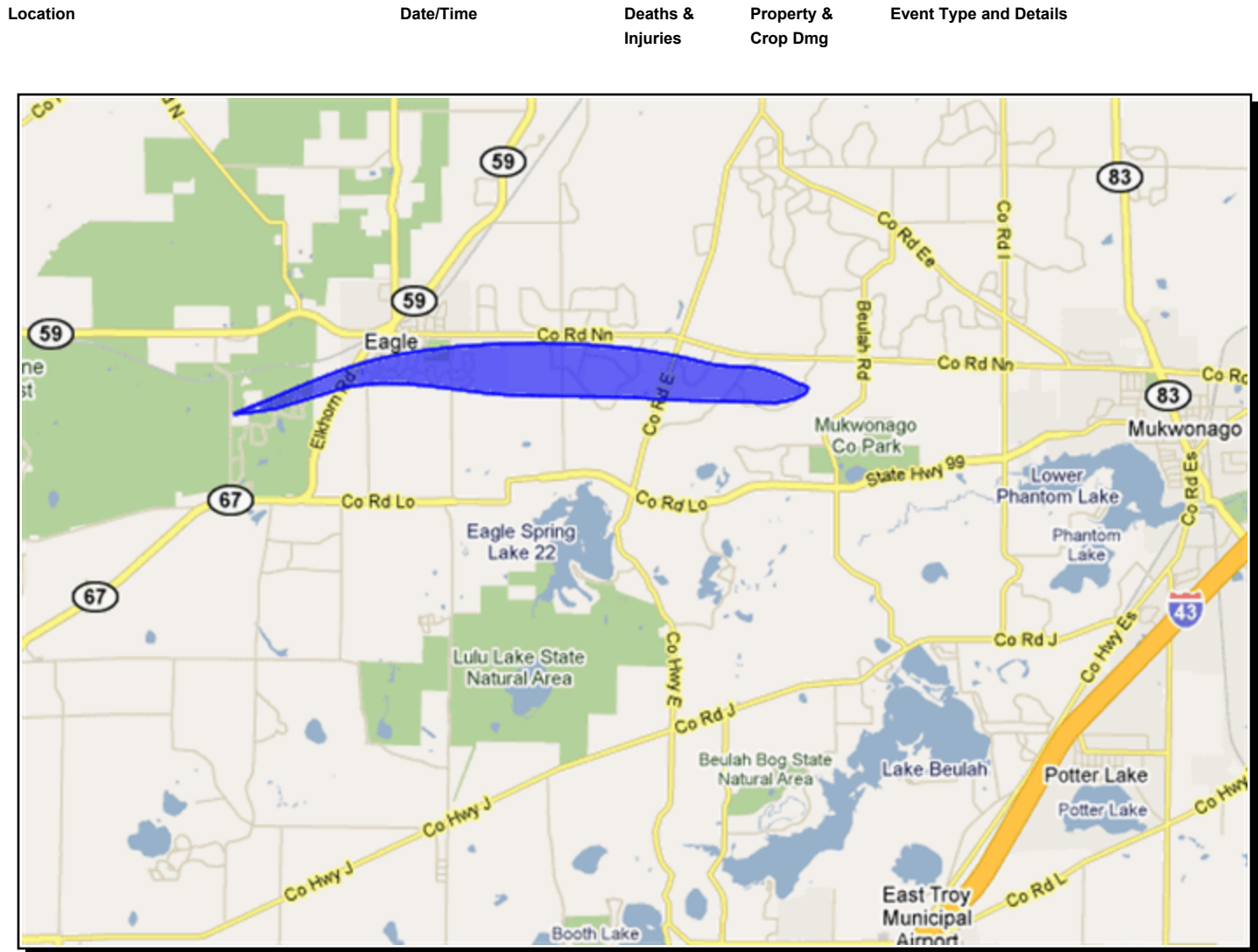
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	06/21/10 19:19 CST		0	Hail (1.50 in)
	06/21/10 19:19 CST		0	Source: Amateur Radio
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<b>DANE COUNTY --- DE FOREST [43.25, -89.33]</b>				
	06/21/10 19:20 CST		0	Funnel Cloud
	06/21/10 19:20 CST		0	Source: Law Enforcement
Law enforcement officials reported a funnel cloud over De Forest. The time is estimated from radar imagery.				
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<b>JEFFERSON COUNTY --- 2.0 SW FT ATKINSON [42.91, -88.88]</b>				
	06/21/10 19:22 CST		15K	Hail (1.50 in)
	06/21/10 19:22 CST		0	Source: Public
The public reported large hail from a severe thunderstorm that caused damage to the roofs of several homes.				
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<b>JEFFERSON COUNTY --- FT ATKINSON [42.93, -88.85]</b>				
	06/21/10 19:24 CST		0	Hail (1.00 in)
	06/21/10 19:24 CST		0	Source: Amateur Radio
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<b>JEFFERSON COUNTY --- 4.7 SW FT ATKINSON [42.88, -88.92]</b>				
	06/21/10 19:26 CST		0	Thunderstorm Wind (EG 70 kt)
	06/21/10 19:26 CST		0	Source: Newspaper
A local newspaper reported that thunderstorm winds knocked down numerous trees wn southwest of Ft. Atkinson.				
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<b>SAUK COUNTY --- 1.0 E REEDSBURG [43.53, -89.98]</b>				
	06/21/10 19:55 CST		0	Funnel Cloud
	06/21/10 19:55 CST		0	Source: Public
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<b>WAUKESHA COUNTY --- EAGLE [42.88, -88.47]</b>				
	06/21/10 20:00 CST		0	Hail (1.50 in)
	06/21/10 20:05 CST		0	Source: Trained Spotter
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<b>WAUKESHA COUNTY --- 1.9 WSW EAGLE [42.87, -88.50], 1.2 ESE JERICHO [42.87, -88.40]</b>				
	06/21/10 20:11 CST		20.60M	Tornado (EF2, L: 5.22 mi , W: 880 yd)
	06/21/10 20:19 CST	15	0	Source: Law Enforcement
An EF2 tornado developed about 1.9 miles west-southwest of the Village of Eagle, roughly 1/2 mile south-southeast of the intersection of STH 59 and CTH S, just west of a horse-riding ranch, and moved east-northeast through the Village and then moved due east before dissipating about 1.2 miles east-southeast of Jericho, just west of Beulah Road near the end of Valley Court Road. Fifteen people sustained minor injuries. One hundred thirty-four homes received minor damage, 67 homes had major damage, and 8 homes were destroyed, mainly in the southern part of the village. Another 75 homes were minimally affected. One business received major damage, while 18 businesses had minor damage. The business that received major damage was a commercial horse-riding ranch/western town at the beginning of the tornado path. Damage was inflicted upon all of the fencing, two trolleys, and 18 tables. One of the biggest buildings on the site was twisted and turned. A donkey was killed, four hayride wagons were lost, and 25 acres of trees were damaged. The owner of the riding ranch saw the tornado and said it looked like the Fourth of July fireworks finale - there were thousands of lightning streaks in the cone. All together, this tornado uprooted or damaged thousands of trees, and at least three dozen vehicles were damaged or totaled. At Old World Wisconsin, an outdoor museum operated by the Wisconsin Historical Society near Eagle, about 2500 tress were damaged at this site alone, and a few buildings sustained minor damage. Overall, Emergency Management officials estimated that residential damage reached \$20,577,500, with business damage around \$311,500, bringing total private sector damage to about \$20,889,000. A few agricultural buildings were damaged, but loss estimates were not available. Public sector structural damage totaled only about \$600, while public sector service costs (non-damage) such as debris clean-up, security and public protection, road protective measures, and other miscellaneous expenses were estimated at \$101,965. The starting point location was Lat. 42.86785 Lon.-88.50307. The end point location was Lat.42.87100 Lon. -88.40003. The EF-rating was based on DI 2 (FR12) DOD 6 which suggests wind speeds between 125 to 130 mph. On the WSR-88D Doppler radar at the nearby WFO Milwaukee (MKX), a "debris-ball" appeared near Eagle within a classic hook echo as the parent thunderstorm moved east.				
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<b>WAUKESHA COUNTY --- DOUSMAN [43.02, -88.47]</b>				
	06/21/10 20:20 CST		0	Thunderstorm Wind (EG 60 kt)
	06/21/10 20:20 CST		0	Source: Law Enforcement
Law enforcement officials reported a number of tress blown down across the town due to strong thunderstorm winds.				

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<b>WALWORTH COUNTY --- EAST TROY [42.78, -88.40]</b>				
	06/21/10 20:34 CST		0	Thunderstorm Wind (EG 65 kt)
	06/21/10 20:34 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines were blown down in multiple locations in East Troy due to strong thunderstorm wind gusts.				
<b>WAUKESHA COUNTY --- 2.2 NNW BIG BEND [42.91, -88.21], 0.6 S TESS CORNERS [42.91, -88.10]</b>				
	06/21/10 20:36 CST		0.43M	Tornado (EF1, L: 5.89 mi , W: 200 yd)
	06/21/10 20:48 CST		0	Source: Law Enforcement
This EF1 tornado affected the Big Bend and Muskego area, and spun up a little more than 2 miles north of Big Bend about 1/10 of a mile southeast of the intersection of Interstate 43 and STH 164. The tornado moved east, dissipating about 1/2 mile south of Tess Corners, just northwest of the intersection of Woods Road and Durham Drive. The roof of the Tess Corners Fire Department tore off, and the U.S. Post Office building in Muskego was damaged when an air conditioning unit was blown off the roof. Several post office vehicles were also damaged. The building housing Muskego Beer and Liquor was badly damaged when a wall collapsed and destroyed half the building. All together, 35 residential dwellings were minimally affected, and 41 homes sustained minor damage. Seventeen businesses were minimally affected, and 1 sustained major damage. Some crops were damaged, but no information on loss estimates was available. Total estimated private sector damage was about \$430,000. Public sector structural damage totaled about \$15,000. Additionally, other public service (non-damage) costs totaled \$65,000; which included \$45,000 for debris clearance, \$10,000 for protective measures, and \$10,000 for road systems. Hundreds of trees were uprooted or damaged. Starting location point was Lat 42.91015 Lon -88.21483 with the ending point Lat 42.91118 Lon -88.09850. The EF-rating was based on DI 27 (TH) DOD3 which suggests a wind speed of 105 mph. The average path width was 90 yards.				
<b>RACINE COUNTY --- WIND LAKE [42.83, -88.15]</b>				
	06/21/10 20:43 CST		0	Thunderstorm Wind (EG 60 kt)
	06/21/10 20:43 CST		0	Source: Law Enforcement
Police officials reported many trees and power lines down in Wind Lake.				
<b>MILWAUKEE COUNTY --- 2.0 SSE FRANKLIN [42.84, -88.06]</b>				
	06/21/10 20:46 CST		0	Hail (1.00 in)
	06/21/10 20:46 CST		0	Source: Trained Spotter
<b>WAUKESHA COUNTY --- 1.5 WNW MUSKEGO [42.91, -88.16], 1.0 NNE MUSKEGO [42.91, -88.12]</b>				
	06/21/10 20:48 CST		0	Thunderstorm Wind (EG 65 kt)
	06/21/10 20:48 CST		0	Source: Law Enforcement
Law enforcement officials reported numerous trees and power lines blown down across the northern quarter of the community.				
<b>MILWAUKEE COUNTY --- 1.0 WSW FRANKLIN [42.86, -88.10]</b>				
	06/21/10 20:55 CST		0	Thunderstorm Wind (EG 56 kt)
	06/21/10 20:55 CST		0	Source: NWS Employee
Powerful thunderstorm winds snapped some large trees.				
<b>RACINE COUNTY --- STURTEVANT [42.70, -87.90]</b>				
	06/21/10 21:08 CST		0	Thunderstorm Wind (EG 52 kt)
	06/21/10 21:08 CST		0	Source: Amateur Radio
HAM radio operator estimated 52 knot (60 mph) thunderstorm wind gusts in Sturtevant.				
<p><b>Strong to severe thunderstorms developed across much of south central and southeast Wisconsin during the evening of June 21, 2010.</b></p> <p><b>A vigorous upper level disturbance helped to support deep vertical motions in the atmosphere, along with strong deep layer wind shear. This lift acted on a warm and very moist atmosphere, carried into the region on a 40 to 50 knot low-level jet. The result was powerful rotating thunderstorms, with damaging straight line winds, large hail, and in this case, 5 tornadoes. At one point during the height of the event, around 48,000 customers in southeast Wisconsin were without electric power due to downed power lines.</b></p> <p><b>However, power-line and power-pole loss estimates were not available and do not show up as damage amounts in any individual event within this severe weather episode.</b></p>				

## Storm Data and Unusual Weather Phenomena - June 2010



*June 21, 2010 Eagle EF-2 tornado path and damage area.*

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### WAUKESHA COUNTY --- 2.0 SW OCONOMOWOC [43.10, -88.51]

06/23/10 02:45 CST	0	Thunderstorm Wind (EG 56 kt)
06/23/10 02:45 CST	0	Source: Trained Spotter

A four-foot in diameter elm tree was blown over as well as several other smaller trees.

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### WAUKESHA COUNTY --- LANNON [43.15, -88.17]

06/23/10 02:50 CST	0	Hail (0.75 in)
06/23/10 02:50 CST	0	Source: Trained Spotter

Hail size was estimated by a trained spotter.

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### OZAUCKEE COUNTY --- MEQUON [43.22, -87.98]

06/23/10 03:00 CST	1M	Lightning
06/23/10 03:00 CST	0	Source: Emergency Manager

A lightning strike in the city of Mequon resulted in a fire at a strip mall in the 1100 block of North Port Washington Road that destroyed 9 businesses. Time is estimated. Other severe weather was reported in southern Wisconsin during the pre-dawn hours of June 23, 2010.

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### LAFAYETTE COUNTY --- NEW DIGGING [42.53, -90.33]

06/23/10 03:25 CST	0	Thunderstorm Wind (EG 56 kt)
06/23/10 03:25 CST	0	Source: Law Enforcement

Trees reported down by law enforcement in the town of New Diggings.

## Storm Data and Unusual Weather Phenomena - June 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>DANE COUNTY --- DOWNTOWN MADISON [43.07, -89.42]</b>				
	06/23/10 03:30 CST		10K	Lightning
	06/23/10 03:30 CST		0	Source: Newspaper

Lightning struck a telephone line that resulted in an unknown number of customers losing telephone service. Exact location within the city is unknown. Time of event and damage amount are estimated.

<b>LAFAYETTE COUNTY --- 1.0 N DARLINGTON [42.69, -90.12]</b>				
	06/23/10 03:40 CST		0	Thunderstorm Wind (EG 56 kt)
	06/23/10 03:40 CST		0	Source: Law Enforcement

Law enforcement reported trees down 1 mile north of Darlington.

<b>JEFFERSON COUNTY --- 3.0 W WATERTOWN [43.20, -88.78], 3.0 NE IXONIA [43.18, -88.56], 3.0 SE IXONIA [43.12, -88.56], 4.0 SW WATERTOWN [43.16, -88.78]</b>				
	06/23/10 04:30 CST		25K	Flash Flood (due to Heavy Rain)
	06/23/10 07:30 CST		5K	Source: Trained Spotter

Three to five inches of rain fell with a severe thunderstorm complex that crossed southern Wisconsin. Many streets were flooded in Watertown where a measured 3.25 inches of rain fell in 4 hours. Law enforcement officials closed Industrial Road in Ixonia due to flooding. Water depths on some roads reached 1 to 3 feet. A few gravel shoulder washouts on country roads were reported.

**A warm front lifted through southern Wisconsin on the nose of a 30 knot low-level jet. Good elevated instability...MLCAPE 2000-3000J/kg...and 40 to 50 knots of deep layer shear supported an MCS as it tracked from northern Iowa across southern Wisconsin during the early morning hours of June 23rd. Although the complex weakened as it crossed Wisconsin, it still produced scattered wind damage as well as flash flooding in portions of Jefferson County and northwest Waukesha County.**

<b>RACINE COUNTY --- 0.8 WNW STURTEVANT [42.70, -87.92], 0.8 S ELMWOOD PARK [42.69, -87.83]</b>				
	06/27/10 12:20 CST		75K	Tornado (EF1, L: 4.60 mi , W: 100 yd)
	06/27/10 12:28 CST	1	0	Source: NWS Storm Survey

A tornado spun up just northwest of the village of Sturtevant just northwest of the intersection of STH 11 and Wisconsin St., and moved east-southeast through the northern part of the village before dissipating in the Elmwood Park area near the intersection of Taylor Ave and Meachem Rd. It damaged two doors of the Sturtevant Fire Department, damaged the roofs and windows of two homes, uprooted a tree that crashed through another home, and knocked over another tree that damage a truck. One person was injured when the tornado winds rushed into her home and pushed her three feet against a banister. Numerous vehicles in a WalMart parking lot had broken windows from airborne debris. It overturned, moved, and slightly damaged two trailers about 50 yards at a local business where it also snapped 3 light poles. At least two to three dozen trees were uprooted or had broken limbs. The beginning and ending lat/lon pairs of numbers were: 42.70306/-87.91533 and 42.68797/-87.82715. The EF-rating was based on DI 27 (FR12), DOD3 EXP, which suggests maximum wind speeds about 95 to 100 mph.

Elsewhere, rear flank downdraft winds from the storm produced scattered minor damage over the extreme southeast corner of Racine County and northeast Kenosha County. The thunderstorm may also have produced a waterspout as it moved out over Lake Michigan about 1 mile north-northeast of the intersection of State Highway 32 and County Highway KR. However, there was no confirmation.

**Scattered thunderstorms developed along an outflow boundary left over from convection earlier in the day, and then moved east along the boundary from Southwest Wisconsin to Southeast Wisconsin during the late morning and early afternoon hours. Though the convection was low-top, decent CAPE values, 0-3KM shear and helicity provided the environment for a thunderstorm cell to produce tornado in Racine County. The tornado produced EF1 damage as it moved east-southeast through the northern part of Sturtevant.**